SHARP

MICRO COMPONENT SYSTEM

MODEL

XL-S15H

OPERATION MANUAL

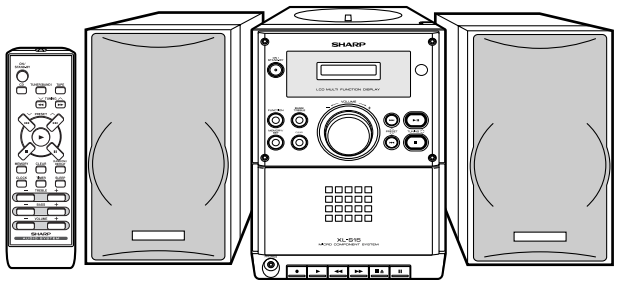
If you require any advice or assistance regarding your Sharp product, please visit our web-site www.sharp.co.uk/customersupport.
Customers without Internet access may telephone 08705 274277 during office hours (or (01) 676 0648 if telephoning from Ireland).

COMPACT disc DIGITAL AUDIO

SAVING ENERGY STAND-BY POWER CONSUMPTION 0.9W

Thank you for purchasing this SHARP product.
To obtain the best performance from this product, please read this manual carefully. It will guide you in operating your SHARP product.

XL-S15H Micro Component System consisting of XL-S15H (main unit) and CP-S15H (speaker system).



CD-R/RW Playable

Special Notes

NOTES FOR USERS IN THE U.K. AND IRELAND

The mains lead of this product is fitted with a non-rewireable (moulded) plug incorporating a 3A fuse. Should the fuse need to be replaced, a BSI or ASTA approved BS 1362 fuse marked ⍒ or ⍚ and of the same rating as above, which is also indicated on the pin face of the plug must be used.

Always refit the fuse cover after replacing the fuse. Never use the plug without the fuse cover fitted.

In the unlikely event of the socket outlet in your home not being compatible with the plug supplied, cut-off the mains plug and fit an appropriate type.

DANGER:
The fuse from the cut-off plug should be removed and the cut-off plug destroyed immediately and disposed of in a safe manner.

Under no circumstances should the cut-off plug be inserted elsewhere into a 13A socket outlet as a serious electric shock may occur.
To fit an appropriate plug to the mains lead, follow the instructions below:

IMPORTANT:
The wires in the mains lead are coloured in accordance with the following code:
Blue : Neutral
Brown : Live

As the colours of the wires in the mains lead of this product may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

- The wire which is coloured blue must be connected to the plug terminal which is marked N or coloured black.
- The wire which is coloured brown must be connected to the plug terminal which is marked L or coloured red.

Ensure that neither the brown nor the blue wire is connected to the earth terminal in your three pin plug.

Before replacing the plug cover, make sure that:

- If the new fitted plug contains a fuse, its value is the same as that removed from the cut-off plug.
- The cord grip is clamped over the sheath of the mains lead and not simply over the lead wires.

IF YOU HAVE ANY DOUBT, CONSULT A QUALIFIED ELECTRICIAN.

SERVICE INFORMATION
In the unlikely event of your equipment requiring repair, please contact the dealer or supplier from whom it was purchased. Where this is not possible, please visit our web-site www. sharp.co.uk/customersupport.
Customers without internet access may telephone 08705 274277 during office hours (or (01) 676 0648 if telephoning from Ireland).
Please note; all calls will be charged at local rate.

Certain replacement parts and accessories may be obtained from our main parts distributor.

WILLOW VALE ELECTRONICS LTD.
0121 766 5414

In the unlikely event of this equipment requiring repair during the guarantee period, you will need to provide proof of the date of purchase to the repairing company.
Please keep your invoice or receipt, which is supplied at the time of purchase.

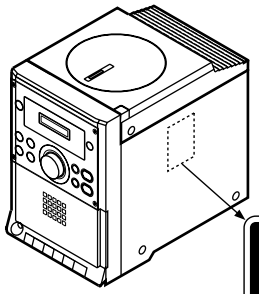
WARNINGS

- When the ON/STAND-BY button is set at STAND-BY position, mains voltage is still present inside the unit. When the ON/STAND-BY button is set at STAND-BY position, the unit may be brought into operation by the timer mode or remote control.
- This unit contains no user serviceable parts. Never remove covers unless qualified to do so. This unit contains dangerous voltages, always remove mains plug from the socket before any service operation and when not in use for a long period.
- To prevent fire or shock hazard, do not expose this appliance to dripping or splashing. No objects filled with liquids, such as vases, shall be placed on the apparatus.

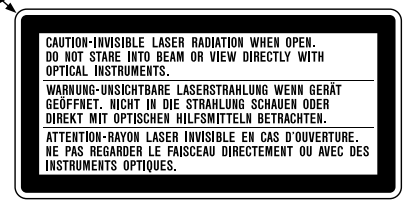
CAUTION

- This product is classified as a CLASS 1 LASER product.
- Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

  As the laser beam used in this compact disc player is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.



Laser Diode Properties
Material: GaAlAs
Wavelength: 780 nm
Emission Duration: continuous
Laser Output: max. 0.6 mW

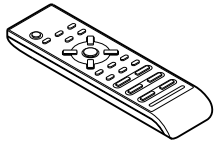
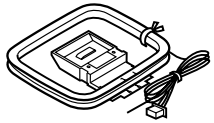

CAUTION-INVISIBLE LASER RADIATION WHEN OPEN.
DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.
WARNUNG-UNSICHTBARE LASERSTRAHLUNG WENN GERÄT GEÖFFNET. NICHT IN DIE STRAHLUNG SCHAUEN ODER DIREKT MIT OPTISCHEN HILFSMITTELN BETRACHTEN.
ATTENTION-RAYON LASER INVISIBLE EN CAS D'OUVERTURE. NE PAS REGARDER LE FAISCEAU DIRECTEMENT OU AVEC DES INSTRUMENTS OPTIQUES.

NOTES

- Recording and playback of any material may require consent, which SHARP is unable to give. Please refer particularly to the provisions of the Copyright Act 1956, the Dramatic and Musical Performers Protection Act 1958, the Performs Protection Acts 1963 and 1972 and to any subsequent statutory enactments and orders.
- This equipment complies with the requirements of Directives 89/336/EEC and 73/23/EEC as amended by 93/68/EEC.

Accessories

Please confirm that the following accessories are included.

	
Remote control × 1	**FM/AM loop aerial × 1**

Note:
Only the above accessories are included.

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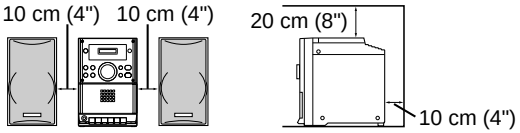
TERMS OF GUARANTEE . . . . . .Back cover

Precautions

■ General

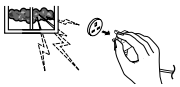
- Please ensure that the equipment is positioned in a well-ventilated area and that there is at least 10 cm (4") of free space along the sides and back. There must also be a minimum of 20 cm (8") of free space on the top of the unit.



- Use the unit on a firm, level surface free from vibration.

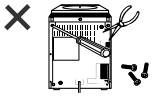
- Keep the unit away from direct sunlight, strong magnetic fields, excessive dust, humidity and electronic/electrical equipment (home computers, facsimiles, etc.) which generate electrical noise.

- Do not place anything on top of the unit.
- Do not expose the unit to moisture, to temperatures higher than 60°C (140°F) or to extremely low temperatures.
- If the system does not work properly, unplug and plug it in again. Then turn on the system.
- In case of an electrical storm, unplug the unit for safety.



- Hold the AC power plug by the head when removing it from the wall socket, as pulling the lead can damage internal wires.

- **Do not remove the outer cover, as this may result in electric shock. Refer internal service to your local SHARP service facility.**



- The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths, curtains, etc.

- No naked flame sources, such as lighted candles, should be placed on the apparatus.
- Attention should be drawn to the environmental aspects of battery disposal.
- The apparatus is designed for use in moderate climate.
- This unit should only be used within the range of 5°C - 35°C (41°F - 95°F).

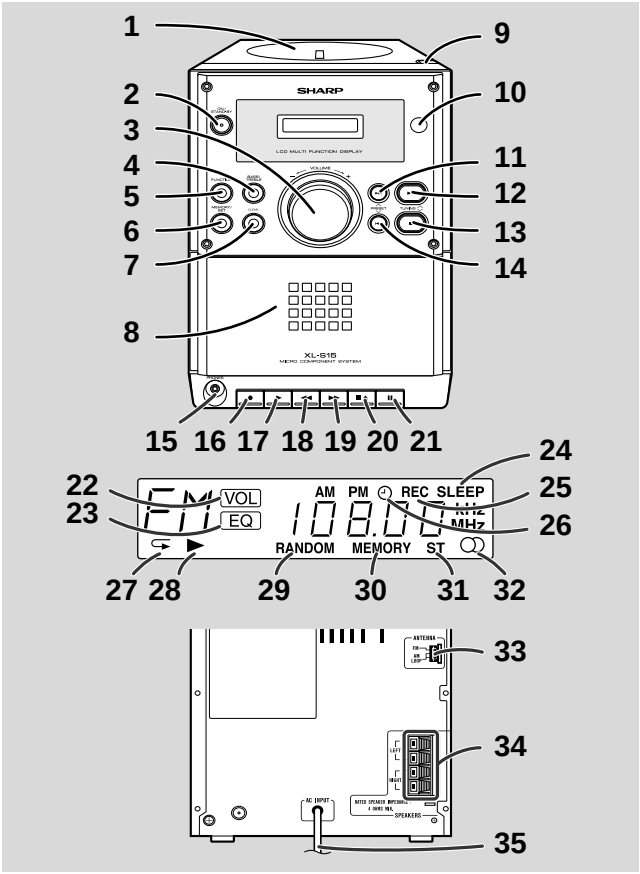
Warnings:

- The voltage used must be the same as that specified on this unit. Using this product with a higher voltage other than that which is specified is dangerous and may result in a fire or other type of accident causing damage. SHARP will not be held responsible for any damage resulting from use of this unit with a voltage other than that which is specified.
- **CD players use a laser pickup which can damage the eyes if viewed directly. Do not look at the pickup, and do not touch the pickup directly.**

■ Volume control

The sound level at a given volume setting depends on speaker efficiency, location, and various other factors. It is advisable to avoid exposure to high volume levels, to avoid this do not turn the volume on to full at switch on and listen to music at moderate levels.

Controls and indicators



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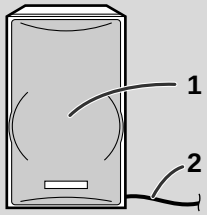
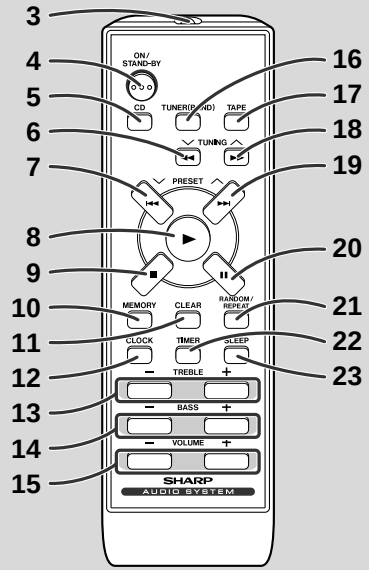


1. Full-Range Speaker
2. Speaker Wire

Note:
The speaker grilles are not removable.



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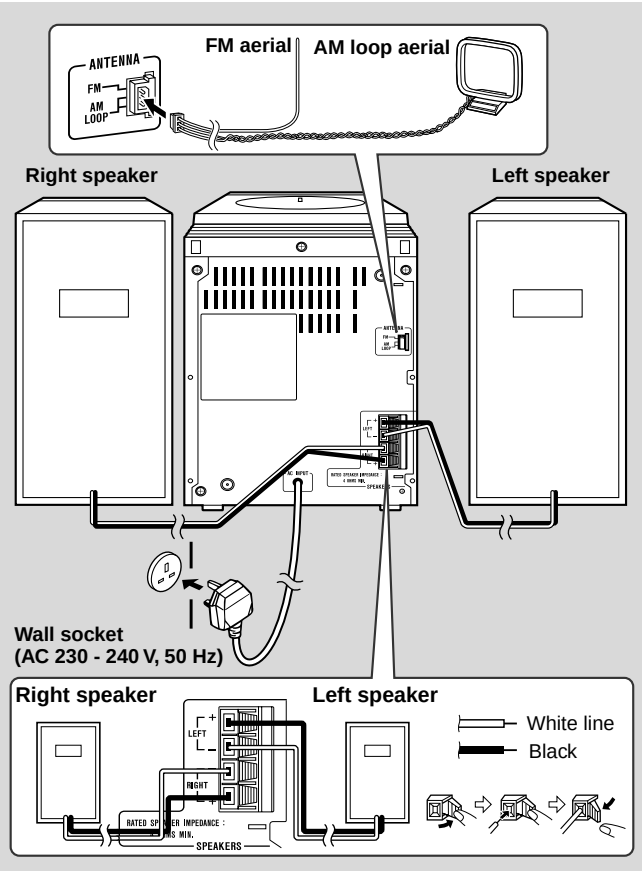
System connections



Make sure to unplug the AC power lead before making any connections.

■ Aerial connection

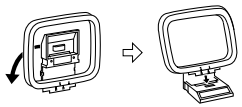
Connect the FM/AM loop aerial to the ANTENNA socket.
Position the FM aerial wire and rotate the AM loop aerial for optimum reception. Place the AM loop aerial on a shelf, or attach it to a stand or a wall.

Notes:

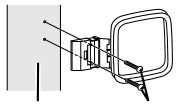
- Placing the aerial on the unit or near the AC power lead may cause noise pickup. Place the aerial away from the unit for better reception.
- Do not connect the attached FM aerial to an external FM aerial. Otherwise, trouble may occur.

Installing the AM loop aerial:

< Assembling >



< Attaching to the wall >



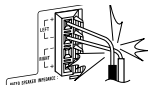
Wall Screws (not supplied)

■ Speaker connection

Connect the wire with the white line to the minus (-) terminal and the black wire to the plus (+) terminal.

Caution:

- **Do not let the bare speaker wires touch each other.**
- Use speakers with an impedance of 4 ohms or more, as lower impedance speakers can damage the unit.
- Do not mistake the right and the left channels. The right speaker is the one on the right side when you face the unit.



Incorrect

Placing the speaker system:
There is no distinction between the right and the left speakers.

■ Connecting the AC power lead

After checking all the connections have been made correctly, plug the AC power lead of this unit into the wall socket.

Note:
Unplug the unit if it is not to be used for a prolonged period of time.

■ To turn the power on

Press the ON/STAND-BY button to turn the power on.

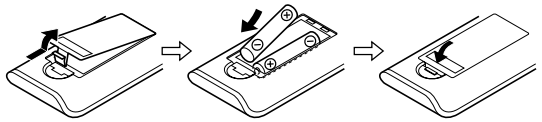
To set the unit to the stand-by mode:
Press the ON/STAND-BY button again.

Remote control

■ Battery installation

Use 2 "AAA" size batteries (UM-4, R03, HP-16 or similar).
Batteries are not included.

1 **Remove the battery cover.**
2 **Insert the batteries according to the direction indicated in the battery compartment.**
When inserting or removing the batteries, push them towards the ⊖ battery terminals.
3 **Replace the cover.**



Precautions for battery use:
- Replace all old batteries with new ones at the same time.
- Do not mix old and new batteries.
- Remove the batteries if the unit is not to be used for long periods of time. This will prevent potential damage due to battery leakage.

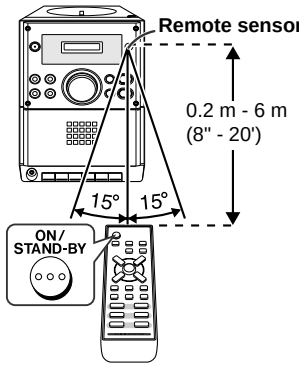
Caution:
- Do not use rechargeable batteries (nickel-cadmium battery, etc.).
- Installing the batteries incorrectly may cause the unit to malfunction.

Notes concerning use:
- Replace the batteries if the operating distance is reduced or if the operation becomes erratic.
- Periodically clean the transmitter on the remote control and the sensor on the unit with a soft cloth.
- Exposing the sensor on the unit to strong light may interfere with operation. Change the lighting or the direction of the unit.
- Keep the remote control away from moisture, heat, shock, and vibrations.

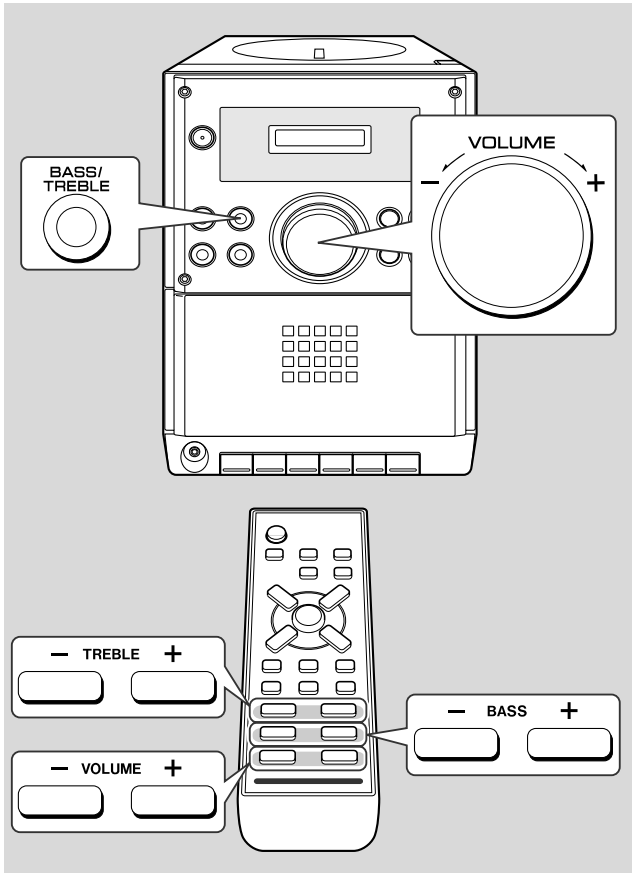
■ Test of the remote control

Face the remote control directly to the remote sensor on the unit.

Press the ON/STAND-BY button. Does the power turn on? Now, you can enjoy the music.



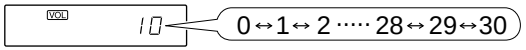
Sound control



■ Adjusting the volume

Main unit operation:
When the VOLUME control is turned clockwise, the volume will increase. When it is turned anti-clockwise, the volume will decrease.

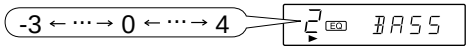
Remote control operation:
Press the VOLUME + button to increase the volume and the VOLUME - button to decrease the volume.



■ Adjusting the bass

Main unit operation:
1 Press the BASS/TREBLE button to select "BASS".
2 Within 5 seconds, turn the VOLUME control to adjust the bass.

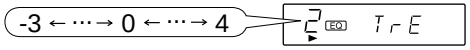
Remote control operation:
Press the BASS (- or +) button to adjust the bass.



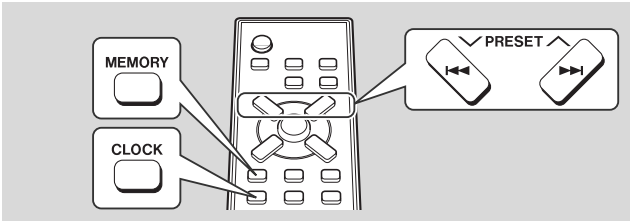
■ Adjusting the treble

Main unit operation:
1 Press the BASS/TREBLE button to select "TrE".
2 Within 5 seconds, turn the VOLUME control to adjust the treble.

Remote control operation:
Press the TREBLE (- or +) button to adjust the treble.

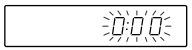


Setting the clock

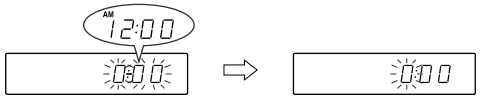


This may be operated only with the remote control.
In this example, the clock is set for the 24-hour (0:00) display.

1 **Press the CLOCK button and within 5 seconds, press the MEMORY button.**



2 **Within 1 minute, press the PRESET (∨ or ∧) button to select 24-hour or 12-hour display and then press the MEMORY button.**



"0:00" → The 24-hour display will appear.
(0:00 - 23:59)

"AM 12:00" → The 12-hour display will appear.
(AM 12:00 - PM 11:59)

Note that this can only be set when the unit is first installed or it has been reset. (Refer to "Clearing all the memory (reset)" on page 24.)

3 **Within 1 minute, press the PRESET (∨ or ∧) button to adjust the hour and then press the MEMORY button.**

When the 12-hour display is selected, "AM" will change automatically to "PM".

4 **Within 1 minute, press the PRESET (∨ or ∧) button to adjust the minutes and then press the MEMORY button.**

The clock starts from "0" second. (Seconds are not displayed.)

To confirm the time display:
Press the CLOCK button.
The time display will appear for about 5 seconds.

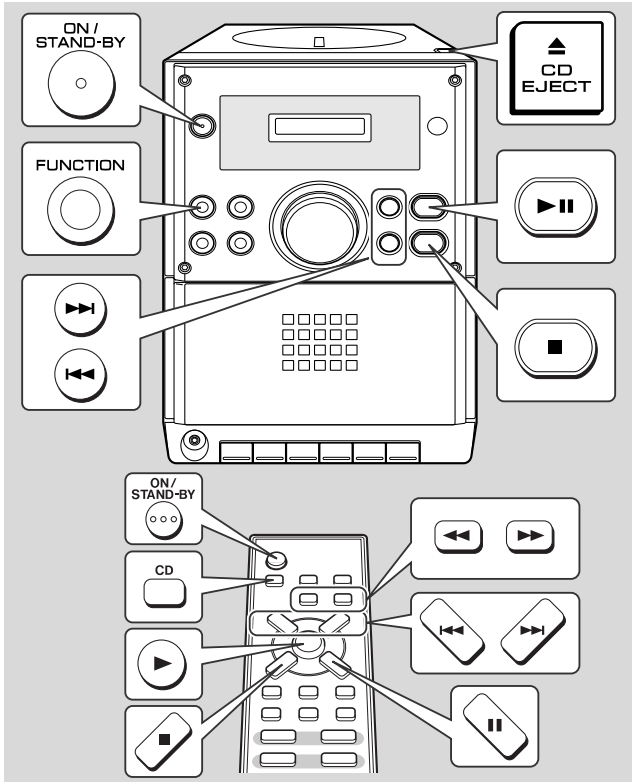
Note:
The "0:00" or time will flash when the AC power supply is restored after a power failure or unplugging the unit.
Readjust the clock as follows.

To readjust the clock:
Perform "Setting the clock" from the beginning.

To change the 24-hour or 12-hour display:
1 Clear all the programmed contents. [Refer to "Clearing all the memory (reset)" on page 24 for details.]
2 Perform "Setting the clock" from the beginning.

Listening to a CD

This system can play audio CD-R and CD-RW discs just like CD discs, but cannot perform recording.
Playback of audio CD-R or CD-RW may not be performed depending on the disc state or the device you used for recording.



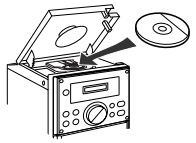
1 **Press the ON/STAND-BY button to turn the power on.**

2 **Press the FUNCTION button until "Cd dISC" appears on the display.**

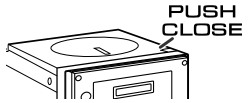
When operating with the remote control, press the CD button.

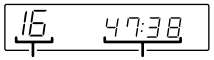
3 **Press the ⏏ CD EJECT button to open the CD compartment.**

4 **Place a CD on the spindle, label side up.**



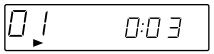
5 **Close the CD compartment by firmly pushing the corner marked "PUSH CLOSE".**





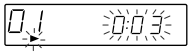
Total number of tracks — Total playing time

6 **Press the ⏯ (▶) button to start playback from track 1.**



When the last track on the disc has finished playing, the CD player will stop automatically.

To interrupt playback:
Main unit operation:
Press the ▶II button.
To resume playback from the same point, press the ▶II button again.



Remote control operation:
Press the II button.
To resume playback from the same point, press the ▶ button.

To stop playback:
Press the ■ button.

To remove the CD:
Whilst in the stop mode, press the ⏏ CD EJECT button.

After use:
Press the ON/STAND-BY button to enter the power stand-by mode.

Caution:
- If a disc is damaged, dirty, or loaded upside down, "no dISC" will appear on the display.
- Keep foreign objects out of the CD compartment.
- Subjecting the unit to shock or vibration may cause mistracking.
- When the unit is not being used, be sure to close the CD compartment. If it is left open, the lens may be covered with dust and the unit may not operate properly.
- If TV or radio interference occurs during CD operation, move the unit away from the TV or radio.

■ Headphones

- Before plugging in or unplugging the headphones, reduce the volume.
- Be sure your headphones have a 3.5 mm (1/8") diameter plug and are between 16 ohms and 50 ohms impedance. The recommended impedance is 32 ohms.
- Plugging in the headphones disconnects the speakers automatically. Adjust the volume using the VOLUME control.

■ To locate the beginning of a track

To move to the beginning of the next track:

Press the ▶▶I button for less than 0.5 seconds during playback.

- You can skip to any track by pressing the ▶▶I button repeatedly until the desired track number appears.

To restart the track being played:

Press the I◀◀ button for less than 0.5 seconds during playback.

- You can skip to any track by pressing the I◀◀ button repeatedly until the desired track number appears.

■ To locate the desired portion

For audible fast forward:

Press and hold down the ▶▶I button on the main unit or the ▶▶ button on the remote control during playback.

For audible fast reverse:

Press and hold down the I◀◀ button on the main unit or the ◀◀ button on the remote control during playback.

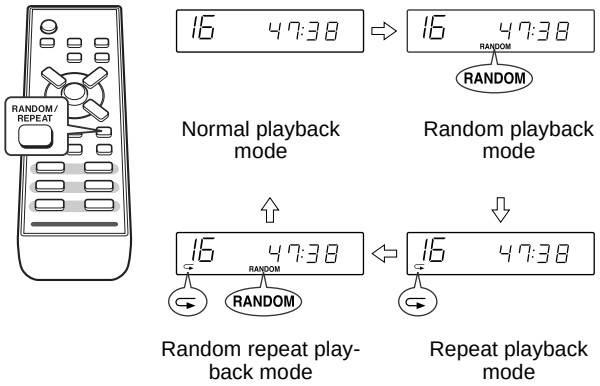
Notes:
- Normal playback will resume when the I◀◀ (◀◀) or ▶▶I (▶▶) button is released.
- When the end of the last track is reached during fast forward, "End" will appear on the display and CD operation will be paused. When the beginning of the first track is reached during fast reverse, the disc will start playback automatically.

Listening to a CD (continued)

■ Repeat or Random play

You can select one of the CD playback mode; "Repeat play", "Random play" and "Normal play".

1 When in the CD mode, press the RANDOM/REPEAT button on the remote control repeatedly to select the playback mode.



2 Press the ► button to start playback.

To repeat a programmed sequence:
Perform steps 1 - 4 in the "Programmed Play" section and then select the repeat playback.

Notes:

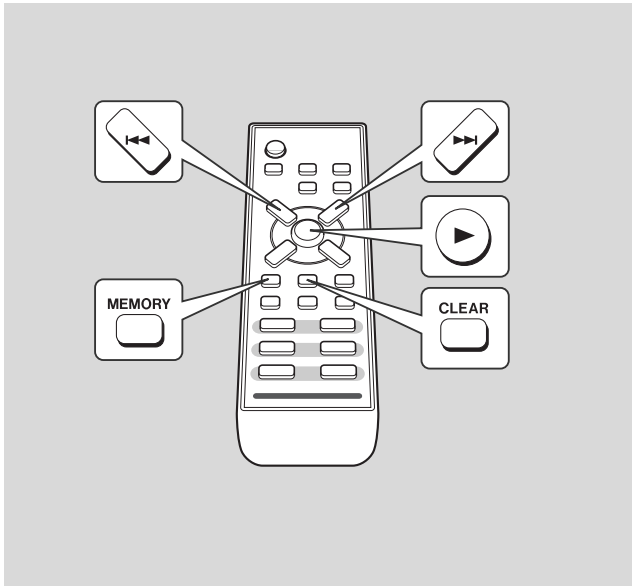
- The random play will stop automatically when all tracks are played once. (The same track will not be played back twice.)
- In random play, the CD player will select and play tracks automatically. (You cannot select the order of the tracks.)
- If you press the ▶▶I button during random play, you can move to the track selected next by the random operation. On the other hand, the I◀◀ button does not allow you to move to the previous track. The beginning of the track being played will be located.

Caution:
After performing repeat or random repeat play, be sure to press the ■ button. Otherwise, the disc will play continuously.

To cancel repeat or random play:
Press the RANDOM/REPEAT button on the remote control repeatedly to select the normal playback mode.

Programmed play

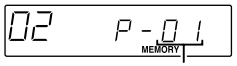
You can choose up to 32 selections for playback in the order you like.



1 **Whilst in the stop mode, press the ⏮ or ⏭ button to select the desired track.**

Selected track number

2 **Press the MEMORY (MEMORY/SET) button to save the track number.**



Playback order

3 **Repeat steps 1 - 2 for other tracks. Up to 32 tracks can be programmed.**

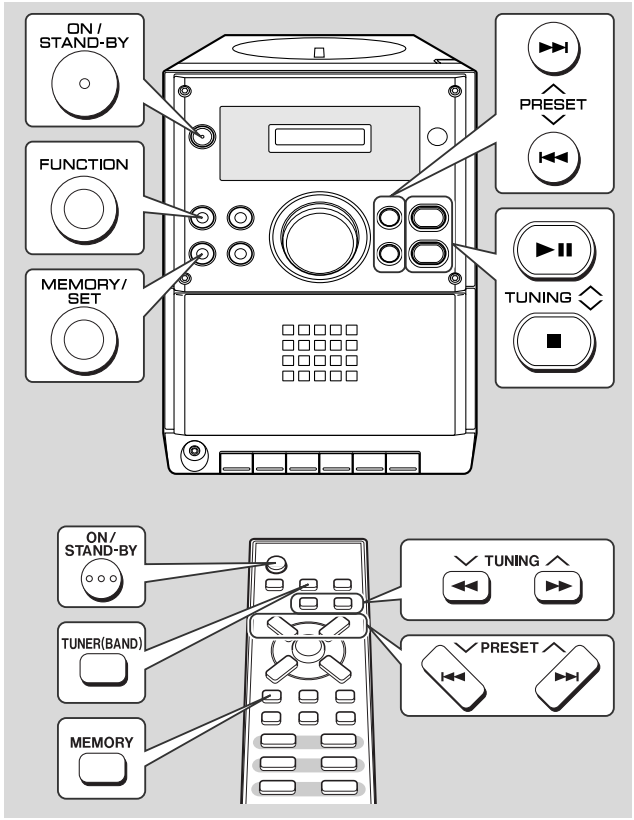
4 **Press the ► (⏯) button to start playback.**

To clear the programmed selections:
Press the CLEAR button whilst the "MEMORY" indicator is lit.
Each time the button is pressed, one track will be cleared, beginning with the last track programmed.

Adding tracks to the programme:
If a programme has been previously stored, the "MEMORY" indicator will be displayed. Then follow steps 1 - 2 to add tracks. The new tracks will be stored after the last track of the original programme.

Notes:
- Opening the CD compartment automatically cancels the programmed sequence.
- Even if you press the ON/STAND-BY button to enter the stand-by mode or the function is changed from CD to some other function, the programmed selections will not be cleared.
- During programme operation, random play is not possible.

Listening to the radio



After use:
Press the ON/STAND-BY button to enter the power stand-by mode.

1 Press the ON/STAND-BY button to turn the power on.

2 Press the FUNCTION button until "FM" or "AM" appears on the display.

When operating with the remote control, press the TUNER (BAND) button to select "FM" or "AM".

3 Press the TUNING (∨ or ∧) button to tune in to the desired station.

Manual tuning:

Press the TUNING button as many times as required to tune in to the desired station.

Auto tuning:

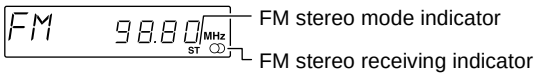
When the TUNING button is pressed for more than 0.5 seconds, scanning will start automatically and the tuner will stop at the first receivable broadcast station.

Notes:

- When radio interference occurs, auto scan tuning may stop automatically at that point.
- Auto scan tuning will skip weak signal stations.
- To stop the auto tuning, press the TUNING button again.

To receive an FM stereo transmission:
Press the FUNCTION (TUNER (BAND)) button to display the "ST" indicator.

- "∞" will appear when an FM broadcast is in stereo.
- If the FM reception is weak, press the FUNCTION (TUNER (BAND)) button to extinguish the "ST" indicator. The reception changes to monaural, and the sound becomes clearer.



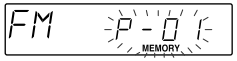
Listening to the memorised station

■ Memorising a station

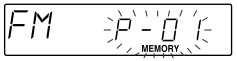
You can store 40 AM and FM stations in memory and recall them at the push of a button. (Preset tuning)

1 **Perform steps 1 - 3 in "Listening to the radio" on page 16.**

2 **Press the MEMORY/SET (MEMORY) button to enter the preset tuning saving mode.**

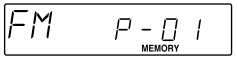


3 **Within 5 seconds, press the PRESET (∨ or ∧) button to select the preset channel number.**



Store the stations in memory, in order, starting with preset channel 1.

4 **Within 5 seconds, press the MEMORY/SET (MEMORY) button to store that station in memory.**



If the "MEMORY" and preset number indicators go out before the station is memorised, repeat the operation from step 2.

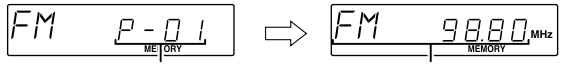
5 **Repeat steps 1 - 4 to set other stations, or to change a preset station.**

When a new station is stored in memory, the station previously memorised will be erased.

Note:
The backup function protects the memorised stations for a few hours should there be a power failure or the AC power lead disconnection.

■ To recall a memorised station

Press the PRESET (∨ or ∧) button for less than 0.5 seconds to select the desired station.



Preset channel — Frequency and frequency band

■ To scan the preset stations

The stations saved in memory can be scanned automatically. (Preset memory scan)

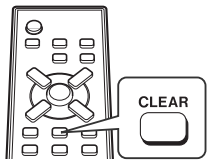
1 **Press the PRESET (∨ or ∧) button for more than 0.5 seconds.**

The preset number will flash and the programmed stations will be tuned in sequentially, for 5 seconds each.

2 **Press the PRESET (∨ or ∧) button again when the desired station is located.**

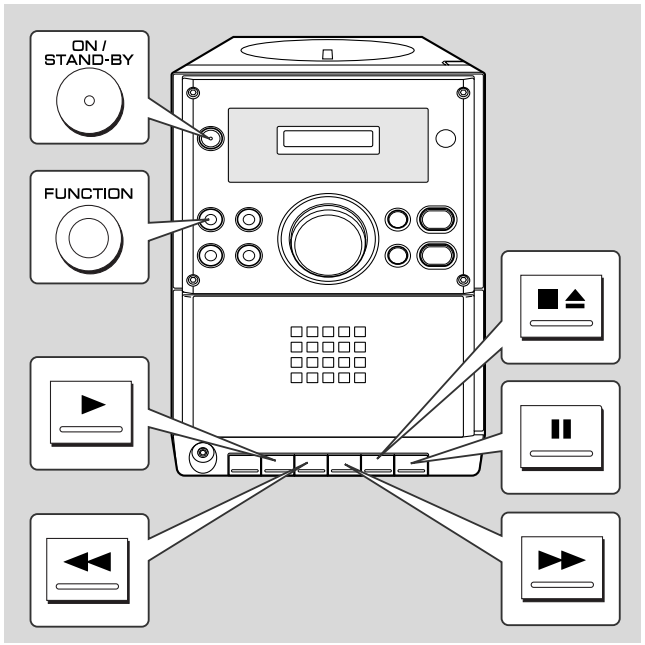
■ To clear a memorised station

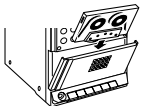
1 Recall the memorised station.
2 Whilst it is displayed, press the MEMORY/SET (MEMORY) button.
3 Within 5 seconds, press the CLEAR button on the remote control.



Listening to a cassette tape

Before playback:
- **For playback, use normal or low-noise tapes for the best sound. (Metal or CrO_2 tapes are not recommended.)**
- Do not use C-120 tapes or poor-quality tapes, as they may cause malfunctions.
- Before loading a tape into the cassette compartment, tighten the slack with a pen or a pencil.



1	**Press the ON/STAND-BY button to turn the power on.**
2	**Press the FUNCTION button until "TAPE" appears on the display.** When operating with the remote control, press the TAPE button.
3	**Press the ■ ⏏ button to open the cassette compartment.**
4	**Load a cassette into the cassette compartment with the side to be played facing toward you.** 
5	**Close the cassette compartment.**
6	**Press the ► button to start playback.**

To stop playback:
Press the ■ ⏏ button.

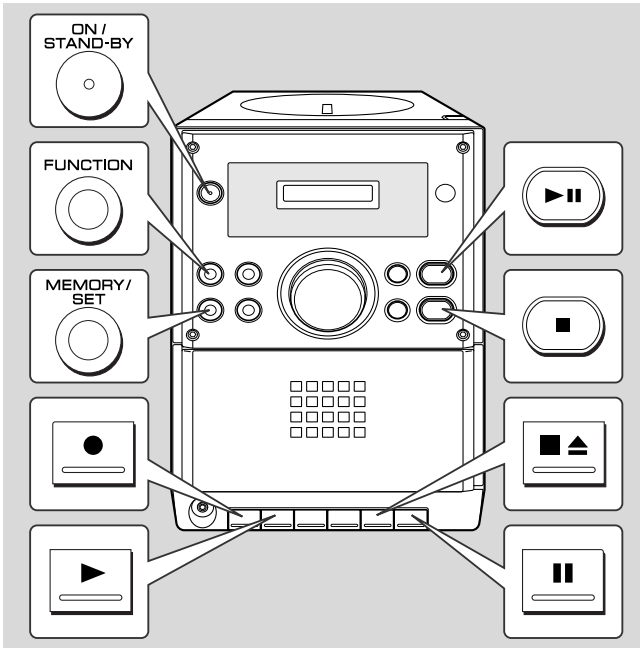
Fast forward/rewind:
To advance the tape, press the ■ ⏏ button, then press the ►► button. To rewind, press the ■ ⏏ button, then press the ◄◄ button.

To interrupt playback:
Press the ❚❚ button during playback.
Press the ❚❚ button again to resume playback.

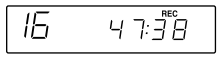
Caution:
- Do not press the ❚❚ button whilst fast forwarding or rewinding. The ◄◄ or ►► button will not be released when the tape end is reached. Once this occurs, press the ■ ⏏ button.
- Before changing from one tape operation to another, press the ■ ⏏ button.

Recording to a cassette tape

Before recording:
- When recording important selections, make a preliminary test to ensure that the desired material is properly recorded.
- SHARP is not liable for damage or loss of your recording arising from malfunction of this unit.
- The volume and sound controls can be adjusted with no effect on the recorded signal (Variable Sound Monitor).
- **For recording, use only normal tapes. Do not use metal or CrO_2 tapes.**



■ Recording from a CD

1	**Press the ON/STAND-BY button to turn the power on.**
2	**Press the FUNCTION button until "Cd dISC" appears on the display.** When operating with the remote control, press the CD button.
3	**Load the desired disc.**
4	**Load a cassette into the cassette compartment with the side to be recorded on facing you.** Wind past the leader of the tape, on which recording cannot be performed.
5	**Press the II button.**
6	**Press the ● button, which also engages the ► button.** 
7	**Press the II button again to cancel the pause mode.**
8	**Press the ►II (►) button for CD.**

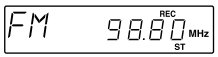
To perform programmed recording:
1 Programme tracks (see page 15).
2 Press the II button.
3 Press the ● button, which also engages the ► button.
4 Press the II button again to cancel the pause mode.
5 Press the ►II (►) button for CD.

To interrupt recording:
Press the II button.
To resume recording, press the II button.

To stop recording:
Press the ■⏏ button.
The tape will stop.

Recording to a cassette tape (continued)

■ Recording from the radio

1	**Tune in to the desired station (see page 16).**
2	**Load a cassette into the cassette compartment with the side to be recorded on facing you.** Wind past the leader of the tape, on which recording cannot be performed.
3	**Press the II button.**
4	**Press the ● button, which also engages the ► button.** 
5	**Press the II button again to begin recording.**

To stop recording:
Press the ■ ⏏ button.

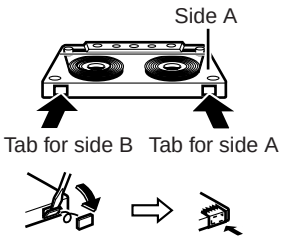
Note:
If you hear a whistling noise whilst recording an AM station, move the AM loop aerial.

■ Erasing a recorded tape

1. Load the tape to be erased into the cassette compartment with the side to be erased facing toward you.
2. Press the FUNCTION button until "TAPE" appears on the display.
3. Press the ● button which also engages the ► button to begin erasing.

Erase-prevention tabs of cassette tapes:

- When recording on a cassette tape, make sure that the erase-prevention tabs are not removed. Cassettes have removable tabs that prevent accidental recording or erasing.
- To protect the recorded sound, remove the tab after recording. Cover the tab hole with the adhesive tape to record on the tape without the tab.



Timer and sleep operation

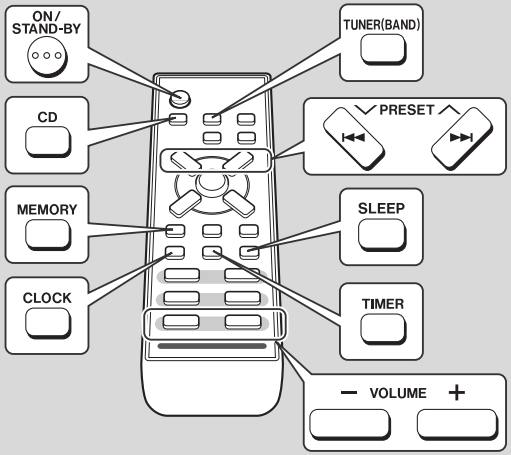
This may be operated only with the remote control.

Timer playback:
The unit turns on and plays the desired source (CD, tuner) at the preset time.

Sleep operation:
The radio and compact disc can all be turned off automatically.

Note:
The timer and sleep operations are not available during tape mode.

Before setting timer:
1 Press the CLOCK button to check that the clock is set to the correct time.
2 Load a disc to be played.



■ Timer playback

1 Press the ON/STAND-BY button to turn the power on.

2 Press the CD or TUNER (BAND) button to select the desired function.

If you select TUNER (BAND), tune in to the desired station.

3 Adjust the volume using the VOLUME buttons.

Do not turn the volume up too high.

4 Press the TIMER button and within 6 seconds, press the MEMORY button.

5 Within 1 minute, press the PRESET (∨ or ∧) button to specify the hour to start, then press the MEMORY button.

6 Within 1 minute, press the PRESET (∨ or ∧) button to specify the minutes to start, then press the MEMORY button.

- The timer playback starting time, function, and volume will be displayed, and then the unit will enter the stand-by mode automatically.
- "◴" will light up and the current time will be displayed.

To cancel the timer playback:

Press the ON/STAND-BY button to turn the power on.

Continued to the next page

Timer and sleep operation (continued)

7 **When the preset time is reached, playback will start.**

The volume will increase gradually until it reaches the volume you were listening at before your system enters the timer stand-by mode.

8 **The unit will enter the stand-by mode one hour after the timer playback starts. However, when CD playback time is one hour or less, it will enter the stand-by mode after completing playback.**

To reset or change the timer setting:
Perform "Timer playback" from the beginning.

■ Sleep operation

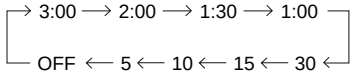
1 **Play back the desired sound source.**

2 **Press the SLEEP button.**

To change the sleep time:

Press the SLEEP button repeatedly to select the desired sleep time. The time will decrease as follows.

The amount of sleep time can also be changed whilst in the sleep mode.



3 **Your system will enter the power stand-by mode automatically after the preset time has elapsed.**

The volume will be turned down 1 minute before the sleep operation finishes.

To cancel the sleep operation:
Press the ON/STAND-BY button whilst "SLEEP" is indicated.
To cancel the sleep operation without setting the system to the stand-by mode, press the SLEEP button until "OFF" appears on the display.

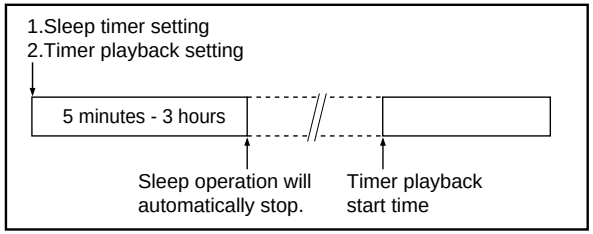
To confirm the remaining sleep time:
Press the SLEEP button once whilst the sleep timer is set.
The remaining sleep time is displayed for about 5 seconds.

■ To use timer and sleep operation together

Example: To fall asleep and wake up to the same radio station
You can play back the same source only (the function cannot be switched).

1 **Set the sleep time (steps 1 - 2, page 22).**

2 **Whilst the sleep timer is set, set the timer playback start time (steps 4 - 6, page 21).**


1.Sleep timer setting
2.Timer playback setting
5 minutes - 3 hours
Sleep operation will automatically stop.
Timer playback start time

Troubleshooting chart

Many potential problems can be resolved by the owner without calling a service technician.
If something is wrong with this product, check the following before calling your authorised SHARP dealer or service centre.

■ General

Symptom	Possible cause
The clock is not set to the correct time.	● Did a power failure occur? Reset the clock (refer to page 11).
When a button is pressed, the unit does not respond.	● Set this unit to the power stand-by mode and then turn it back on. ● If the unit still malfunctions, reset it. (Refer to page 24.)
No sound is heard.	● Is the volume level set to "0"? ● Are the headphones connected? ● Are the speaker wires disconnected?

■ CD player

Playback does not start.	● Is the disc loaded upside down?
Playback stops in the middle or is not performed properly.	● Does the disc satisfy the standards? ● Is the disc distorted or scratched?
Playback sounds are skipped, or stopped in the middle of a track.	● Is the unit located near excessive vibrations? ● Is the disc very dirty? ● Has condensation formed inside the unit?

■ Tuner

The radio makes unusual noises continuously.	● Is the unit placed near the TV or computer? ● Is the FM or AM aerial placed properly? Move the aerial away from the AC power lead if located near.

■ Cassette deck

Cannot record.	● Is the erase-prevention tab removed?
Cannot record tracks with proper sound quality. Cannot erase completely.	● Is it a normal tape? (You cannot record on a metal or CrO_2 tape.)
Sound skipping.	● Is there any slack?
Cannot hear treble.	● Is the tape stretched?
Sound fluctuation.	● Are the capstan, pinch roller, or heads dirty?

■ Remote control

The remote control does not operate.	● Is the AC power lead of the unit plugged in? ● Is the battery polarity correct? ● Are the batteries dead? ● Is the distance or angle incorrect? ● Does the remote control sensor receive strong light?

Troubleshooting chart (continued)

■ If trouble occurs

When this product is subjected to strong external interference (mechanical shock, excessive static electricity, abnormal supply voltage due to lightning, etc.) or if it is operated incorrectly, it may malfunction.

If such a problem occurs, do the following:

1 Set the unit to the stand-by mode and turn the power on again.
2 If the unit is not restored in the previous operation, unplug and plug in the unit, and then turn the power on.

Note:
If neither operation above restores the unit, clear all the memory by resetting it.

■ Clearing all the memory (reset)

1 Press the ON/STAND-BY button to enter the power stand-by mode.
2 Whilst pressing down the MEMORY/SET button and the CLEAR button, press the ON/STAND-BY button until "CL" appears.

Caution:
This operation will erase all data stored in memory including clock, timer settings, tuner preset, and CD programme.

■ Condensation

Sudden temperature changes, storage or operation in an extremely humid environment may cause condensation inside the cabinet (CD pickup, tape heads, etc.) or on the transmitter on the remote control. Condensation can cause the unit to malfunction. If this happens, leave the power on with no disc (or cassette) in the unit until normal playback is possible (about 1 hour). Wipe off any condensation on the transmitter with a soft cloth before operating the unit.

Maintenance

■ Cleaning the CD pickup lens

Do not touch the laser pickup lens. If fingerprints or dust accumulate on the pickup, clean it gently with a dry cotton swab.

■ Cleaning the cabinet

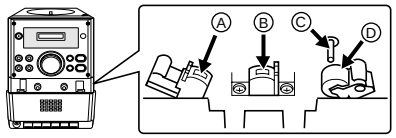
Periodically wipe the cabinet with a soft cloth and a diluted soap solution, then with a dry cloth.

Caution:

- Do not use chemicals for cleaning (petrol, paint thinner, etc.). It may damage the cabinet finish.
- Do not apply oil to the inside of the unit. It may cause malfunctions.

■ Cleaning the tape-handling parts

- Dirty heads, capstan or pinch roller can cause poor sound and tape jams. Clean these parts with a cotton swab moistened with commercial head/pinch roller cleaner or isopropyl alcohol.
- When cleaning the heads, pinch roller, etc., unplug the unit which contains high voltages.



Ⓐ Erase head
Ⓑ Recording/Playback head
Ⓒ Capstan
Ⓓ Pinch roller

- After long use, the deck's heads and capstan may become magnetised, causing poor sound. Demagnetise these parts once every 30 hours of playing/recording time by using a commercial tape head demagnetiser. Read the demagnetiser's instructions carefully before use.

■ Care of compact discs

Compact discs are fairly resistant to damage, however mistracking can occur due to an accumulation of dirt on the disc surface. Follow the guidelines below for maximum enjoyment from your CD collection and player.

- Do not write on either side of the disc, particularly the non-label side from which signals are read. Do not mark this surface.
- Keep your discs away from direct sunlight, heat, and excessive moisture.
- Always hold the CDs by the edges. Fingerprints, dirt, or water on the CDs can cause noise or mistracking. If a CD is dirty or does not play properly, clean it with a soft, dry cloth, wiping straight out from the centre, along the radius.

NO

YES
Correct

Specifications

As part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

■ General

Power source	AC 230 - 240 V, 50 Hz
Power consumption	Power on: 25 W Power stand-by: 0.9 W
Dimensions	Width: 160 mm (6-5/16") Height: 242 mm (9-1/2") Depth: 250 mm (9-7/8")
Weight	2.3 kg (5.1 lbs.)

■ Amplifier

Output power	RMS: 10 W (5 W + 5 W) (10 % T.H.D.)
Output terminals	Speakers: 4 ohms Headphones: 16 - 50 ohms (recommended: 32 ohms)

■ Tuner

Frequency range	FM: 87.5 - 108 MHz AM: 522 - 1,620 kHz

■ CD player

Type	Compact disc player
Signal readout	Non-contact, 3-beam semiconductor laser pickup
D/A converter	1-bit D/A converter
Frequency response	20 - 20,000 Hz
Dynamic range	90 dB (1 kHz)

■ Cassette deck

Frequency response	125 - 8,000 Hz (normal tape)
Signal/noise ratio	50 dB (recording/playback)
Wow and flutter	0.3 % (WRMS)

■ Speaker

Type	10 cm (4") full-range speaker
Maximum input power	10 W
Rated input power	5 W
Impedance	4 ohms
Dimensions	Width: 130 mm (5-1/8") Height: 240 mm (9-7/16") Depth: 161 mm (6-5/16")
Weight	1.4 kg (3.1 lbs.)/each

MEMO

TERMS OF GUARANTEE

Sharp Electronics (UK) Ltd. (“Sharp”) guarantees to provide for the repair, or at its option the replacement, of this product subject to the conditions listed below:-

1. This guarantee shall only apply to faults which are due to inferior workmanship or materials. It does not cover faults or damage caused by accident, misuse, fair wear and tear, neglect, tampering with the product, or repair other than by a Service Facility appointed by Sharp.

2. As this product is intended for private domestic use only, the guarantee will not apply if the product is used in the course of a business, trade or profession.

3. To benefit from this guarantee, any fault which occurs must be notified to Sharp, or its appointed Service Facility within one year from the date this product was purchased. Proof of purchase must be provided.

4. The guarantee does not cover carriage costs, audio tapes, compact discs or batteries.

5. In the unlikely event of this product requiring repair, please contact the supplier from whom it was purchased. Where this is not possible, please contact the Sharp Customer Information Centre on the telephone number given below.

6. No person has any authority to vary the terms or conditions of this guarantee.

7. This guarantee is offered as an additional benefit to your statutory rights, and does not affect these rights in any way.

If you have any difficulty operating this product, or would like information on other Sharp products, please telephone the Sharp Customer Information Centre on the number given below.

Sharp Customer Information Centre - Telephone 08705 274277
(or (01) 676 0648 if telephoning from Ireland)

SHARP

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